

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. APP. NO. 10/613,026

REMARKS

Summary Of The Office Action

Claims 1-14 are pending in the application.

Claims 1-2 and 9 are rejected on the ground of non-statutory obviousness-type double patenting as being unpatentable over claims 1-2 and 7 of U.S. Patent No. 6,853,157.

Claim 9 is rejected under 35 U.S.C. § 103 as being unpatentable over Applicant's admitted prior art as illustrated in Fig. 4 of the present application.

Double Patenting Rejection

Claims 1-2 and 9 stand rejected on the ground of non-statutory obviousness-type double patenting as being unpatentable over claims 1-2 and 7 of U.S. Patent No. 6,853,157. Applicant herewith submits a terminal disclaimer, and therefore respectfully requests the Examiner to withdraw the rejection of claim 1-2 and 9.

Rejection of Claim 9 Under 35 U.S.C. § 103

Claim 9 stands rejected as being unpatentable over Applicant's admitted prior art. Applicant has amended claim 9 to recite, in part, "calculating a differentially amplified voltage value for a noise-removed current, and feeding back to the step for calculating the calculated voltage value." Applicant respectfully submits that none of the prior art cited by the Examiner discloses or otherwise teaches calculating a differentially amplified voltage value for a noise-removed current, and feeding back to the step for calculating the calculated voltage value, as set forth in the amended claim. Therefore, claim 9 is patentable.

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Allowable Subject Matter

Claims 3-8 and 10-14 stand objected to as being dependent on rejected base claims, but would be allowable if rewritten in independent form. Claim 10 has been rewritten in independent form. The remaining claims are patentable based on their respective dependencies. Therefore, Applicant respectfully requests that the objections be removed and the application be allowed.

Conclusion

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,

SUGHRUE MION, PLLC

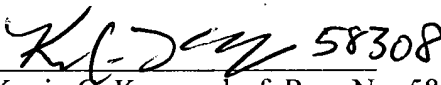
Telephone: (202) 293-7060

Facsimile: (202) 293-7860

WASHINGTON OFFICE

23373

CUSTOMER NUMBER


Kevin C. Kunzendorf, Reg. No. 58,308
(for) Peter A. McKenna, Reg. No. 38,551

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